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1 A nested transaction model for multilevel secure database management systems

Elisa Bertino, Barbara Catania, Elena Ferrari

November 2001 **ACM Transactions on Information and System Security (TISSEC),**
Volume 4 Issue 4

Publisher: ACM Press

Full text available: 📄 pdf(560.96 KB)   Additional Information: full citation, abstract, references, index terms

This article presents an approach to concurrency control for transactions in a Multilevel Secure Database Management System (MLS/DBMS). The major problem is that concurrency control mechanisms used in traditional DBMSs are not adequate in a MLS/DBMS, since they may be exploited to establish covert channels. The approach presented in this article, which uses single-version data items, is based on the use of nested transactions, application-level recovery, and notification-based locking protocols. ...

Keywords: Nested transactions, concurrency control, covert channels, multilevel secure database management systems

2 Compiling nested data-parallel programs for shared-memory multiprocessors

Siddhartha Chatterjee

July 1993 **ACM Transactions on Programming Languages and Systems (TOPLAS),**
Volume 15 Issue 3

Publisher: ACM Press

Full text available: 📄 pdf(4.17 MB)   Additional Information: full citation, references, citings, index terms, review

Keywords: compilers, data parallelism, shared-memory multiprocessors

3 Session 4: big stuff: Out-of-core construction and visualization of multiresolution surfaces

Peter Lindstrom

April 2003 **Proceedings of the 2003 symposium on Interactive 3D graphics**

Publisher: ACM Press

Full text available: 📄 pdf(5.13 MB)   Additional Information: full citation, abstract, references, citings, index

terms

We present a method for end-to-end out-of-core simplification and view-dependent visualization of large surfaces. The method consists of three phases: (1) memory insensitive simplification; (2) memory insensitive construction of a multiresolution hierarchy; and (3) run-time, output-sensitive, view-dependent rendering and navigation of the mesh. The first two off-line phases are performed entirely on disk, and use only a small, constant amount of memory, whereas the run-time system pages in only ...

Keywords: large-data visualization, out-of-core algorithms, surface simplification, view-dependent refinement

4 Concurrency control in advanced database applications

Naser S. Barghouti, Gail E. Kaiser

September 1991 **ACM Computing Surveys (CSUR)**, Volume 23 Issue 3

Publisher: ACM Press

Full text available: pdf(4.69 MB)   Additional Information: full citation, references, citings, index terms

Keywords: advanced database applications, concurrency control, cooperative transactions, design environments, extended transaction models, long transactions, object-oriented databases, relaxing serializability

5 Level set and PDE methods for computer graphics

David Breen, Ron Fedkiw, Ken Museth, Stanley Osher, Guillermo Sapiro, Ross Whitaker

August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**

Publisher: ACM Press

Full text available: pdf(17.07 MB)   Additional Information: full citation, abstract

Level set methods, an important class of partial differential equation (PDE) methods, define dynamic surfaces implicitly as the level set (iso-surface) of a sampled, evolving nD function. The course begins with preparatory material that introduces the concept of using partial differential equations to solve problems in computer graphics, geometric modeling and computer vision. This will include the structure and behavior of several different types of differential equations, e.g. the level set eq ...

6 Point-based computer graphics

Marc Alexa, Markus Gross, Mark Pauly, Hanspeter Pfister, Marc Stamminger, Matthias Zwicker

August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**

Publisher: ACM Press

Full text available: pdf(8.94 MB)   Additional Information: full citation, abstract, citings

This course introduces points as a powerful and versatile graphics primitive. Speakers present their latest concepts for the acquisition, representation, modeling, processing, and rendering of point sampled geometry along with applications and research directions. We describe algorithms and discuss current problems and limitations, covering important aspects of point based graphics.

7 Multidimensional access methods

Volker Gaede, Oliver Günther

June 1998 **ACM Computing Surveys (CSUR)**, Volume 30 Issue 2

Publisher: ACM Press

Full text available: 📄 pdf(1.05 MB)   Additional Information: full citation, abstract, references, citings, index terms

Search operations in databases require special support at the physical level. This is true for conventional databases as well as spatial databases, where typical search operations include the point query (find all objects that contain a given search point) and the region query (find all objects that overlap a given search region). More than ten years of spatial database research have resulted in a great variety of multidimensional access methods to support ...

Keywords: data structures, multidimensional access methods

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Sunil Hadap, Dave Eberle, Pascal Volino, Ming C. Lin, Stephane Redon, Christer Ericson
August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**
Publisher: ACM Press
Full text available: 📄 pdf(11.22 MB)   Additional Information: full citation, abstract

This course will primarily cover widely accepted and proved methodologies in collision detection. In addition more advanced or recent topics such as continuous collision detection, ADFs, and using graphics hardware will be introduced. When appropriate the methods discussed will be tied to familiar applications such as rigid body and cloth simulation, and will be compared. The course is a good overview for those developing applications in physically based modeling, VR, haptics, and robotics.

9 The elements of nature: interactive and realistic techniques

Oliver Deusen, David S. Ebert, Ron Fedkiw, F. Kenton Musgrave, Przemyslaw Prusinkiewicz, Doug Roble, Jos Stam, Jerry Tessendorf
August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**
Publisher: ACM Press
Full text available: 📄 pdf(17.65 MB)   Additional Information: full citation, abstract

This updated course on simulating natural phenomena will cover the latest research and production techniques for simulating most of the elements of nature. The presenters will provide movie production, interactive simulation, and research perspectives on the difficult task of photorealistic modeling, rendering, and animation of natural phenomena. The course offers a nice balance of the latest interactive graphics hardware-based simulation techniques and the latest physics-based simulation techni ...

10 Concurrency control issues in nested transactions

Theo Härder, Kurt Rothermel
January 1993 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 2 Issue 1
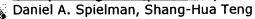**Publisher:** Springer-Verlag New York, Inc.
Full text available: 📄 pdf(1.90 MB)   Additional Information: full citation, abstract, references, citings

The concept of nested transactions offers more decomposable execution units and finer-grained control over concurrency and recovery than "flat" transactions. Furthermore, it supports the decomposition of a "unit of work" into subtasks and their appropriate distribution in a computer system as a prerequisite of intratransaction parallelism. However, to exploit its full potential, suitable granules of concurrency control as well as access modes for shared data are necessary. In this article, we in ...

Keywords: concurrency control, locking, nested transactions, object hierarchies

11 Disk packings and planar separators

Daniel A. Spielman, Shang-Hua Teng
May 1996 **Proceedings of the twelfth annual symposium on Computational geometry**
Publisher: ACM Press
Full text available: pdf(869.90 KB)   Additional Information: full citation, references, citings, index terms

12 GPGPU: general purpose computation on graphics hardware

David Luebke, Mark Harris, Jens Krüger, Tim Purcell, Naga Govindaraju, Ian Buck, Cliff
Woolley, Aaron Lefohn
August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH
        '04**
Publisher: ACM Press
Full text available: pdf(63.03 MB)   Additional Information: full citation, abstract

The graphics processor (GPU) on today's commodity video cards has evolved into an
extremely powerful and flexible processor. The latest graphics architectures provide
tremendous memory bandwidth and computational horsepower, with fully programmable
vertex and pixel processing units that support vector operations up to full IEEE floating
point precision. High level languages have emerged for graphics hardware, making this
computational power accessible. Architecturally, GPUs are highly parallel s ...

13 Algorithms for congruent sphere packing and applications

Danny Z. Chen, Xiaobo Hu, Yingping Huang, Yifan Li, Jinhui Xu
June 2001 **Proceedings of the seventeenth annual symposium on Computational
        geometry**
Publisher: ACM Press
Full text available: pdf(290.09 KB)   Additional Information: full citation, abstract, references, index terms

The problem of packing congruent spheres (i.e., copies of the same sph ere) in a bounded
domain arises in many applications. In this paper, we present a new pack-and-shake
scheme for packing congruent spheres in various bounded 2-D domains. Our packing
scheme is based on a number of interesting ideas, such as a trimming and packing
approach, optimal lattice packing under translation and/or rotation, shaking procedures,
etc. Our packing algorithms have fairly low time complexities. In cert ...

14 Gross motion planning—a survey

Yong K. Hwang, Narendra Ahuja
September 1992 **ACM Computing Surveys (CSUR)**, Volume 24 Issue 3
Publisher: ACM Press

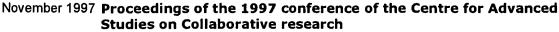Full text available: pdf(6.40 MB)   Additional Information: full citation, abstract, references, citings, index
                                                                          terms, review

Motion planning is one of the most important areas of robotics research. The complexity
of the motion-planning problem has hindered the development of practical algorithms.
This paper surveys the work on gross-motion planning, including motion planners for
point robots, rigid robots, and manipulators in stationary, time-varying, constrained, and
movable-object environments. The general issues in motion planning are explained.
Recent approaches and their performances are briefly described, a ...

Keywords: collision detection, computational geometry, implementation, motion
planning, obstacle avoidance, path planning, spatial representation

15 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Publisher: IBM Press

Full text available: pdf(4.21 MB)   Additional Information: full citation, abstract, references, index terms
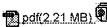
Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

16 Session P13: view-dependent techniques: Visualization of large terrains made easy

Peter Lindstrom, Valerio Pascucci

October 2001 **Proceedings of the conference on Visualization '01**

Publisher: IEEE Computer Society

Full text available: pdf(2.21 MB)   Additional Information: full citation, abstract, references, citings, index terms
Publisher Site

We present an elegant and simple to implement framework for performing out-of-core visualization and view-dependent refinement of large terrain surfaces. Contrary to the recent trend of increasingly elaborate algorithms for large-scale terrain visualization, our algorithms and data structures have been designed with the primary goal of simplicity and efficiency of implementation. Our approach to managing large terrain data also departs from more conventional strategies based on data tiling. Rath ...

17 Separation and approximation of polyhedral objects

Joseph S. B. Mitchell, Subhash Suri

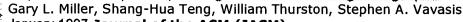September 1992 **Proceedings of the third annual ACM-SIAM symposium on Discrete algorithms**

Publisher: Society for Industrial and Applied Mathematics

Full text available: pdf(1.20 MB)   Additional Information: full citation, abstract, references, citings, index terms

Given a family of disjoint polygons P1, P2,..., Pk in the plane, and an integer parameter m, it is NP-complete to decide if the Pi's can be separated by a polygonal family consisting of m edges, that is, if there exist polygons R1, R2

18 Separators for sphere-packings and nearest neighbor graphs

Gary L. Miller, Shang-Hua Teng, William Thurston, Stephen A. Vavasis

January 1997 **Journal of the ACM (JACM)**, Volume 44 Issue 1

Publisher: ACM Press

Full text available: pdf(651.91 KB)   Additional Information: full citation, abstract, references, citings, index terms

A collection of n balls in d dimensions forms a k-ply system if no point in the space is covered by more than k balls. We show that for every k-ply system &Ggr;, there is a sphere S that intersects at most $O(k1/dn1-1/d)$ balls of &Ggr; and divides the remainder ...

Keywords: centerpoint, computational geometry, graph algorithms, graph separators, partitioning, point location, probabilistic method, rndomized algorithm, sphere-preserving mapping

19

Real-time shading

Marc Olano, Kurt Akeley, John C. Hart, Wolfgang Heidrich, Michael McCool, Jason L. Mitchell, Randi Rost

August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**

Publisher: ACM Press

Full text available: pdf(7.39 MB)   Additional Information: full citation, abstract

Real-time procedural shading was once seen as a distant dream. When the first version of this course was offered four years ago, real-time shading was possible, but only with one-of-a-kind hardware or by combining the effects of tens to hundreds of rendering passes. Today, almost every new computer comes with graphics hardware capable of interactively executing shaders of thousands to tens of thousands of instructions. This course has been redesigned to address today's real-time shading capabili ...

20 Hierarchical triangulation for multiresolution surface description

Leila De Floriani, Enrico Puppo

October 1995 **ACM Transactions on Graphics (TOG)**, Volume 14 Issue 4

Publisher: ACM Press

Full text available: pdf(3.89 MB)   Additional Information: full citation, abstract, references, citings, index terms

A new hierarchical triangle-based model for representing surfaces over sampled data is proposed, which is based on the subdivision of the surface domain into nested triangulations, called a hierarchical triangulation (HT). The model allows compression of spatial data and representation of a surface at successively finer degrees of resolution. An HT is a collection of triangulations organized in a tree, where each node, except for the root, is a triangulation refining a face ...

Keywords: hierarchical subdivision, multiresolution surface model, terrain model, triangulation

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1 Fast detection of communication patterns in distributed executions   ⬛
Thomas Kunz, Michiel F. H. Seuren
November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**
Publisher: IBM Press
Full text available: ▤ pdf(4.21 MB)   Additional Information: full citation, abstract, references, index terms

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2 Research session: new applications: The SphereSearch engine for unified ranked retrieval of heterogeneous XML and web documents   ⬛
Jens Graupmann, Ralf Schenkel, Gerhard Weikum
August 2005 **Proceedings of the 31st international conference on Very large data bases VLDB '05**
Publisher: VLDB Endowment
Full text available: ▤ pdf(381.86 KB)   Additional Information: full citation, abstract, references, index terms

> This paper presents the novel SphereSearch Engine that provides unified ranked retrieval on heterogeneous XML and Web data. Its search capabilities include vague structure conditions, text content conditions, and relevance ranking based on IR statistics and statistically quantified ontological relationships. Web pages in HTML or PDF are automatically converted into XML format, with the option of generating semantic tags by means of linguistic annotation tools. For Web data the XML-oriented query ...

3 The elements of nature: interactive and realistic techniques   ⬛
❖ Oliver Deusen, David S. Ebert, Ron Fedkiw, F. Kenton Musgrave, Przemyslaw Prusinkiewicz, Doug Roble, Jos Stam, Jerry Tessendorf
August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**
Publisher: ACM Press
Full text available: ▤ pdf(17.65 MB)   Additional Information: full citation, abstract

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4   Level set and PDE methods for computer graphics

David Breen, Ron Fedkiw, Ken Museth, Stanley Osher, Guillermo Sapiro, Ross Whitaker
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'04**
Publisher: ACM Press
Full text available: pdf(17.07 MB)   Additional Information: full citation, abstract

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David Luebke, Mark Harris, Jens Krüger, Tim Purcell, Naga Govindaraju, Ian Buck, Cliff
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point precision. High level languages have emerged for graphics hardware, making this
computational power accessible. Architecturally, GPUs are highly parallel s ...

6   Point-based computer graphics

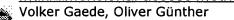Marc Alexa, Markus Gross, Mark Pauly, Hanspeter Pfister, Marc Stamminger, Matthias
Zwicker
August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH
'04**
Publisher: ACM Press
Full text available: pdf(8.94 MB)   Additional Information: full citation, abstract, citings

This course introduces points as a powerful and versatile graphics primitive. Speakers
present their latest concepts for the acquisition, representation, modeling, processing,
and rendering of point sampled geometry along with applications and research directions.
We describe algorithms and discuss current problems and limitations, covering important
aspects of point based graphics.

7   Multidimensional access methods

Volker Gaede, Oliver Günther
June 1998 **ACM Computing Surveys (CSUR)**, Volume 30 Issue 2
Publisher: ACM Press
Full text available: pdf(1.05 MB)   Additional Information: full citation, abstract, references, citings, index
terms

Search operations in databases require special support at the physical level. This is true
for conventional databases as well as spatial databases, where typical search operations

include the point query (find all objects that contain a given search point) and the region query (find all objects that overlap a given search region). More than ten years of spatial database research have resulted in a great variety of multidimensional access methods to support ...

Keywords: data structures, multidimensional access methods

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9 Data clustering: a review

A. K. Jain, M. N. Murty, P. J. Flynn
September 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 3
Publisher: ACM Press
Full text available: pdf(636.24 KB)   Additional Information: full citation, abstract, references, citings, index terms, review

Clustering is the unsupervised classification of patterns (observations, data items, or feature vectors) into groups (clusters). The clustering problem has been addressed in many contexts and by researchers in many disciplines; this reflects its broad appeal and usefulness as one of the steps in exploratory data analysis. However, clustering is a difficult problem combinatorially, and differences in assumptions and contexts in different communities has made the transfer of useful generic co ...

Keywords: cluster analysis, clustering applications, exploratory data analysis, incremental clustering, similarity indices, unsupervised learning

10 The Aleph: a tool to spatially represent user knowledge about the WWW docuverse

Fernando Das Neves
April 1997 **Proceedings of the eighth ACM conference on Hypertext**
Publisher: ACM Press
Full text available: pdf(1.35 MB)   Additional Information: full citation, references, citings, index terms

Keywords: Web visualization, navigation tools, spatial metaphors

11 Session 4: big stuff: Out-of-core construction and visualization of multiresolution surfaces

Peter Lindstrom
April 2003 **Proceedings of the 2003 symposium on Interactive 3D graphics**
Publisher: ACM Press

Full text available: pdf(5.13 MB)   Additional Information: full citation, abstract, references, citings, index terms

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Keywords: large-data visualization, out-of-core algorithms, surface simplification, view-dependent refinement

12 Atomicity and isolation for transactional processes

Heiko Schuldt, Gustavo Alonso, Catriel Beeri, Hans-Jörg Schek
March 2002 **ACM Transactions on Database Systems (TODS)**, Volume 27 Issue 1
Publisher: ACM Press

Full text available: pdf(1.22 MB)   Additional Information: full citation, abstract, references, citings, index terms

Processes are increasingly being used to make complex application logic explicit. Programming using processes has significant advantages but it poses a difficult problem from the system point of view in that the interactions between processes cannot be controlled using conventional techniques. In terms of recovery, the steps of a process are different from operations within a transaction. Each one has its own termination semantics and there are dependencies among the different steps. Regarding c ...

Keywords: Advanced transaction models, business process management, electronic commerce, execution guarantees, locking, rocesses, semantically rich transactions, transactional workflows, unified theory of concurrency control and recovery

13 Isosurface extraction techniques for Web-based volume visualization

Klaus Engel, Rüdiger Westermann, Thomas Ertl
October 1999 **Proceedings of the conference on Visualization '99: celebrating ten years**
Publisher: IEEE Computer Society Press

Full text available: pdf(2.16 MB)   Additional Information: full citation, abstract, references, citings, index terms

The reconstruction of isosurfaces from scalar volume data has positioned itself as a fundamental visualization technique in many different applications. But the dramatically increasing size of volumetric data sets often prohibits the handling of these models on affordable low-end single processor architectures. Distributed client-server systems integrating high-bandwidth transmission channels and Web-based visualization tools are one alternative to attack this particular problem, but theref ...

Keywords: Web-based applications, distributed systems, isosurface reconstruction, volume visualiation

14 Modeling and rendering II: Function-based shape modeling and visualization in X3D

Qi Liu, Alexei Sourin
April 2006 **Proceedings of the eleventh international conference on 3D web technology Web3D '06**
Publisher: ACM Press

Additional Information: full citation, abstract, references, index terms

In this paper, a function-based extension of Extensible 3D (X3D) is proposed. The extension allows authors to use analytical functions to define geometry, color, 3D texture as well as operations on 3D shapes or time-dependent metamorphoses. The functions can be implicit, parametric or explicit functions, defined as analytical formulas or scripts with similar syntax as ECMAScripts. The extension allows authors to benefit from both the compactness of function-based models and the new features in E ...

Keywords: 3D web visualization, X3D, computer animation, function-based shape modeling, metamorphose

15 Representation of Three-Dimensional Digital Images
Sargur N. Srihari
December 1981 **ACM Computing Surveys (CSUR)**, Volume 13 Issue 4
Publisher: ACM Press
Full text available: pdf(2.36 MB)   Additional Information: full citation, references, citings, index terms

16 A system for geographical and spatial data exploration on the internet
Celyn S. L. Chan, Tony K. Y. Chan, Edmond C. Prakash
December 2000 **Selected papers from the Pan-Sydney workshop on Visualisation - Volume 2 CRPITS '00**
Publisher: Australian Computer Society, Inc.
Full text available: pdf(1.23 MB)   Additional Information: full citation, abstract, references, index terms

Developing a detailed 3D conceptual spatial data model and incorporating it for visualization, is a promising method of Spatial Data Exploration for a variety of applications especially in the display, analysis and interpretation of useful and timely meteorological and geographical information. Spatial Data Exploration is quite complex due to the following factors:i) the spatial nature of data that is being processedii) time-variant nature of data.In this paper we present a new system that can u ...

17 A distributed memory unstructured gauss-seidel algorithm for multigrid smoothers
Mark F. Adams
November 2001 **Proceedings of the 2001 ACM/IEEE conference on Supercomputing (CDROM)**
Publisher: ACM Press
Full text available: pdf(1.08 MB)   Additional Information: full citation, abstract, references, citings, index terms

Gauss-Seidel is a popular multigrid smoother as it is provably optimal on structured grids and exhibits superior performance on unstructured grids. Gauss-Seidel is not used to our knowledge on distributed memory machines as it is not obvious how to parallelize it effectively. We, among others, have found that Krylov solvers preconditioned with Jacobi, block Jacobi or overlapped Schwarz are effective on unstructured problems. Gauss-Seidel does however have some attractive properties, namely: fast ...

Keywords: algebraic multigrid, parallel gauss-seidel, parallel graph algorithms, unstructured multigrid

18 An evaluation of Web services in the design of a B2B application
K. Hogg, P. Chilcott, M. Nolan, B. Srinivasan
January 2004 **Proceedings of the 27th conference on Australasian computer science -**

Volume 26 CRPIT '04
Publisher: Australian Computer Society, Inc.
Full text available: pdf(206.36 KB)   Additional Information: full citation, abstract, references

> This paper describes the architectural considerations in the design of a web services B2B application. A component design is presented which exploits the postulated advantages of object oriented and web services technologies. Our main focus has been to design interim measures to overcome the limitations of current web services architecture and standards. We discuss our interim design with reference to our approach to load balancing and the design of application based error handling to support bo ...

> **Keywords:** e-commerce, services oriented computing, web services

19 Visualizing geospatial data
Theresa Marie Rhyne, Alan MacEachern, Theresa-Marie Rhyne
August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**
Publisher: ACM Press
Full text available: pdf(13.99 MB)   Additional Information: full citation, abstract

> This course reviews concepts and highlights new directions in GeoVisualization. We review four levels of integrating geospatial data and geographic information systems (GIS) with scientific and information visualization (VIS) methods. These include:• Rudimentary: minimal data sharing between the GIS and Vis systems• Operational: consistency of geospatial data• Functional: transparent communication between the GIS and Vis systems• Merged: one comprehensive toolkit environmentW ...

20 Approximating geometrical graphs via "spanners" and "banyans"
Satish B. Rao, Warren D. Smith
May 1998 **Proceedings of the thirtieth annual ACM symposium on Theory of computing**
Publisher: ACM Press
Full text available: pdf(1.70 MB)   Additional Information: full citation, references, citings, index terms

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1 Policy management using access control spaces ▨

❖ Trent Jaeger, Xiaolan Zhang, Fidel Cacheda
⬥ August 2003 **ACM Transactions on Information and System Security (TISSEC)**, Volume 6
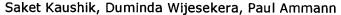Issue 3
Publisher: ACM Press

Full text available: ⬛ pdf(360.69 KB) Additional Information: full citation, abstract, references, citings, index terms, review

We present the concept of an *access control space* and investigate how it may be useful in managing access control policies. An access control space represents the permission assignment state of a subject or role. For example, the set of permissions explicitly assigned to a role defines its *specified* subspace, and the set of constraints precluding assignment to that role defines its *prohibited* subspace. In analyzing these subspaces, we identify two problems: (1) often a signi ...

Keywords: Access control models, authorization mechanisms, role-based access control

2 Access control: Policy-based dissemination of partial web-ontologies ▨

❖ Saket Kaushik, Duminda Wijesekera, Paul Ammann
⬥ November 2005 **Proceedings of the 2005 workshop on Secure web services SWS '05**
Publisher: ACM Press

Full text available: ⬛ pdf(196.99 KB) Additional Information: full citation, abstract, references, index terms

Traditional discretionary access control, without data alteration operators, applied directly on ontologies can result in revealing unintended information because ontologies contain meta-information about objects. As an alternative we provide a constraint logic programming based policy language that can extract, rove or desensitize sensitive concepts in ontologies prior to requested disclosures. Our policies are stratified Horn clauses with constructive negation, and our constraint syst uses a f ...

Keywords: OWL, RDF, access control, constraint logic programming, control, inference, ontology, policy

3 The state of the art in locally distributed Web-server systems ▨

❖ Valeria Cardellini, Emiliano Casalicchio, Michele Colajanni, Philip S. Yu
⬥ June 2002 **ACM Computing Surveys (CSUR)**, Volume 34 Issue 2

Publisher: ACM Press

Full text available: 🗎 pdf(1.41 MB)   Additional Information: full citation, abstract, references, citings, index terms

The overall increase in traffic on the World Wide Web is augmenting user-perceived response times from popular Web sites, especially in conjunction with special events. System platforms that do not replicate information content cannot provide the needed scalability to handle large traffic volumes and to match rapid and dramatic changes in the number of clients. The need to improve the performance of Web-based services has produced a variety of novel content delivery architectures. This article w ...

Keywords: Client/server, World Wide Web, cluster-based architectures, dispatching algorithms, distributed systems, load balancing, routing mechanisms

4 Access control: An access control framework for business processes for web services
Hristo Koshutanski, Fabio Massacci
October 2003 **Proceedings of the 2003 ACM workshop on XML security**
Publisher: ACM Press

Full text available: 🗎 pdf(269.56 KB)   Additional Information: full citation, abstract, references, index terms, review

Business Processes for Web Services are the new paradigm for the lightweight integration of business from different enterprises.Whereas the security and access control policies for basic web services and distributed systems are well studied and almost standardized, there is not yet a comprehensive proposal for an access control architecture for business processes. The major issue is that a business process describe complex services that cross organizational boundaries and are provided by entitie ...

Keywords: controlled disclosure, distributed systems security, e-business, interactive access control, security management, web services

5 Access control for XML document: AC-XML documents: improving the performance of a web access control module
Barbara Carminati, Elena Ferrari
June 2005 **Proceedings of the tenth ACM symposium on Access control models and technologies**
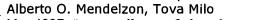**Publisher:** ACM Press

Full text available: 🗎 pdf(461.87 KB)   Additional Information: full citation, abstract, references, index terms

Protecting information over the Web is today becoming a primary need. Although many access control models have been so far proposed to address the specific protection requirements of the web environment, no comparable amount of work has been done for finding efficient techniques for performing access control. We believe that the availability of techniques for speeding-up access control is a key issue to make an access control model widely acceptable. This is particularly crucial in an environmen ...

Keywords: XML, access control, web
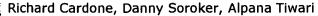
6 Formal models of Web queries
Alberto O. Mendelzon, Tova Milo
May 1997 **Proceedings of the sixteenth ACM SIGACT-SIGMOD-SIGART symposium on Principles of database systems**
Publisher: ACM Press

Full text available: pdf(1.99 MB)   Additional Information: full citation, references, citings, index terms

7 Applications: Using XForms to simplify Web programming
Richard Cardone, Danny Soroker, Alpana Tiwari
May 2005 **Proceedings of the 14th international conference on World Wide Web**
Publisher: ACM Press
Full text available: pdf(1.03 MB)   Additional Information: full citation, abstract, references, index terms

The difficulty of developing and deploying commercial web applications increases as the
number of technologies they use increases and as the interactions between these
technologies become more complex. This paper describes a way to avoid this increasing
complexity by re-examining the basic requirements of web applications. Our approach is
to first separate client concerns from server concerns, and then to reduce the interaction
between client and server to its most elemental: parameter passing. ...

Keywords: J2EE, MVC, Web application, XForms, XMLBeans, eclipse, visual builder

**8 Computer networks (CN): Analytical modelling of priority commit protocol for reliable
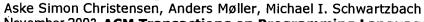Web applications**
I. Awan, M. Younas
March 2004 **Proceedings of the 2004 ACM symposium on Applied computing**
Publisher: ACM Press
Full text available: pdf(209.71 KB)   Additional Information: full citation, abstract, references

Web applications are vulnerable to failures and low performance due to the large
population of users and the widespread distribution of Internet. Transaction technology
provides Web applications with high reliability and improved performance. This paper
presents a novel approach for the efficient commit processing of Web transactions. The
proposed approach is based on the implementation of priority active network scheduling
mechanism at each network node. It involves rigorous analysis of a netwo ...

9 Extending Java for high-level Web service construction
Aske Simon Christensen, Anders Møller, Michael I. Schwartzbach
November 2003 **ACM Transactions on Programming Languages and Systems
(TOPLAS)**, Volume 25 Issue 6
Publisher: ACM Press
Full text available: pdf(947.02 KB)   Additional Information: full citation, abstract, references, citings, index
terms

We incorporate innovations from the <bigwig> project into the Java language to provide
high-level features for Web service programming. The resulting language, JWIG, contains
an advanced session model and a flexible mechanism for dynamic construction of XML
documents, in particular XHTML. To support program development we provide a suite of
program analyses that at compile time verify for a given program that no runtime errors
can occur while building documents or receiving form input, and ...

Keywords: Interactive Web services, XML, data-flow analysis

**10 Workshop on testing, analysis and verification of web services (TAV-WEB) papers:
Testing web database applications**
Yuetang Deng, Phyllis Frankl, Jiong Wang
September 2004 **ACM SIGSOFT Software Engineering Notes**, Volume 29 Issue 5

Publisher: ACM Press

Full text available: ▓ pdf(110.98 KB)   Additional Information: full citation, abstract, references

> Commercial, scientific, and social activities are increasingly becoming dependent on Web database applications. New testing techniques that handle the unique features of these systems are needed. To that end, we have extended AGENDA, a tool set for testing relational database applications, to test web database applications. Application source code is analyzed to extract relevant information about the URLs and their parameters. This information is used to construct and simplify a graph in which n ...

> **Keywords:** database, software testing, web application

11 Business processes and conversations: Decentralized orchestration of composite web services

Girish B. Chafle, Sunil Chandra, Vijay Mann, Mangala Gowri Nanda

May 2004 **Proceedings of the 13th international World Wide Web conference on Alternate track papers & posters**

Publisher: ACM Press

Full text available: ▓ pdf(166.96 KB)   Additional Information: full citation, abstract, references, index terms

> *Web services* make information and software available programmatically via the Internet and may be used as building blocks for applications. A composite web service is one that is built using multiple component web services and is typically specified using a language such as BPEL4WS or WSIPL. Once its specification has been developed, the composite service may be *orchestrated* either in a *centralized* or in a *decentralized* fashion. Decentralized orchestration offers perf ...

> **Keywords:** BPEL4WS, code partitioning, composite web services, decentralized orchestration

12 Access control for XML document: Relevancy based access control of versioned XML documents

Mizuho Iwaihara, Somchai Chatvichienchai, Chutiporn Anutariya, Vilas Wuwongse

June 2005 **Proceedings of the tenth ACM symposium on Access control models and technologies**

Publisher: ACM Press

Full text available: ▓ pdf(219.95 KB)   Additional Information: full citation, abstract, references, index terms

> Integration of version and access control of XML documents has the benefit of regulating access to rapidly growing archives of XML documents. Versioned XML documents provide us with valuable informations on dependencies between document nodes, but at the same time presenting the risk of undesirable data disclosure. In this paper we introduce the notion of relevancy-based access control, which realizes protection of versioned XML documents by various types of relevancy, such as version dependenci ...

> **Keywords:** XML, XPath, access control, query language, security, version control

13 Control choices and network effects in hypertext systems

E. James Whitehead

February 1999 **Proceedings of the tenth ACM Conference on Hypertext and hypermedia : returning to our diverse roots: returning to our diverse roots**

Publisher: ACM Press

Full text available: ▓ pdf(1.12 MB)   Additional Information: full citation, references, citings, index terms

Keywords: WWW, architectural control choices, monolithic hypertext, network effects, open hypertext

14 Semantics, ontologies & enterprise integration track: Efficient integration of web services with distributed data flow and active mediation

David Liu, Jun Peng, Kincho H. Law, Gio Wiederhold

March 2004 **Proceedings of the 6th international conference on Electronic commerce ICEC '04**

Publisher: ACM Press

Full text available: 📄 pdf(254.77 KB)   Additional Information: full citation, abstract, references, index terms

This paper presents a loosely coupled service-composition paradigm. This paradigm employs a distributed data flow that differs markedly from centralized information flow adopted by current service integration frameworks, such as CORBA, J2EE and SOAP. Distributed data flows support direct data transmission to avoid many performance bottlenecks of centralized processing. In addition, active mediation is used in applications employing multiple web services that are not fully compatible in terms of ...

Keywords: active mediation, direct data transmission, handheld services, mobile class, service integration, web services

15 Procedure linkage optimization working paper

A. Maggiolo-Schettini, B. K. Rosen, H. R. Strong

October 1973 **Proceedings of the 1st annual ACM SIGACT-SIGPLAN symposium on Principles of programming languages**

Publisher: ACM Press

Full text available: 📄 pdf(955.95 KB)   Additional Information: full citation, abstract, references, citings

This paper discusses the desirability of procedure linkage optimization and sketches a general theory of interpretive semantics which is motivated by technical problems in specifying and validating program transformations that optimize procedure linkages. One particular transformation is treated in detail.Recursive ALGOL 60 procedures sometimes pass parameters by name in such a way that the general thunk mechanism is unnecessary and inefficient. We present an optimization which detects this kind ...

16 Cluster resource management: Resource overbooking and application profiling in shared hosting platforms

Bhuvan Urgaonkar, Prashant Shenoy, Timothy Roscoe

December 2002 **ACM SIGOPS Operating Systems Review**, Volume 36 Issue SI

Publisher: ACM Press

Full text available: 📄 pdf(2.00 MB)   Additional Information: full citation, abstract, references, citings

In this paper, we present techniques for provisioning CPU and network resources in shared hosting platforms running potentially antagonistic third-party applications. The primary contribution of our work is to demonstrate the feasibility and benefits of overbooking resources in shared platforms, to maximize the platform yield: the revenue generated by the available resources. We do this by first deriving an accurate estimate of application resource needs by profiling applications on dedicated no ...

17 Dynamic Access Control: Dynamic and risk-aware network access management

Lawrence Teo, Gail-Joon Ahn, Yuliang Zheng

June 2003 **Proceedings of the eighth ACM symposium on Access control models and**

technologies
Publisher: ACM Press
Full text available: pdf(266.74 KB)   Additional Information: full citation, abstract, references, index terms

> Traditional network security technologies such as firewalls and intrusion detection systems usually work according to a static ruleset only. We believe that a better approach to network security can be achieved if we use quantified levels of risk as an input. In this paper, we describe a dynamic access control architecture which uses risk to determine whether to allow or deny access by a source connection into the network. A simulation of our architecture shows favorable and promising results.
>
> **Keywords:** dynamic access control, network management, risk, risk awareness, role

18 Special issue on the PAPA 2002 workshop: Performance study of dispatching algorithms in multi-tier web architectures
Mauro Andreolini, Michele Colajanni, Ruggero Morselli
September 2002 **ACM SIGMETRICS Performance Evaluation Review**, Volume 30 Issue 2
Publisher: ACM Press
Full text available: pdf(1.16 MB)   Additional Information: full citation, abstract, references, citings

> The number and heterogeneity of requests to Web sites are increasing also because the Web technology is becoming the preferred interface for information systems. Many systems hosting current Web sites are complex architectures composed by multiple server layers with strong scalability and reliability issues. In this paper we compare the performance of several combinations of centralized and distributed dispatching algorithms working at the first and second layer, and using different levels of st ...

19 Cluster resource management: An integrated experimental environment for distributed systems and networks
Brian White, Jay Lepreau, Leigh Stoller, Robert Ricci, Shashi Guruprasad, Mac Newbold, Mike Hibler, Chad Barb, Abhijeet Joglekar
December 2002 **ACM SIGOPS Operating Systems Review**, Volume 36 Issue SI
Publisher: ACM Press
Full text available: pdf(2.10 MB)   Additional Information: full citation, abstract, references

> Three experimental environments traditionally support network and distributed systems research: network emulators, network simulators, and live networks. The continued use of multiple approaches highlights both the value and inadequacy of each. Netbed, a descendant of Emulab, provides an experimentation facility that integrates these approaches, allowing researchers to configure and access networks composed of emulated, simulated, and wide-area nodes and links. Netbed's primary goals are *ease* ...

20 Web mining and clustering: Stylistic and lexical co-training for web block classification
Chee How Lee, Min-Yen Kan, Sandra Lai
November 2004 **Proceedings of the 6th annual ACM international workshop on Web information and data management**
Publisher: ACM Press
Full text available: pdf(349.91 KB)   Additional Information: full citation, abstract, references, index terms

> Many applications which use web data extract information from a limited number of regions on a web page. As such, web page division into blocks and the subsequent block classification have become a preprocessing step. We introduce PARCELS, an open-source, co-trained approach that performs classification based on separate stylistic and lexical views of the web page. Unlike previous work, PARCELS performs classification on fine-grained blocks. In addition to table-based layout, the system handl ...

Keywords: PARCELS, co-training, lexical and stylistic learners, web page block classification, web page division

Results 1 - 20 of 200   Result page: **1** 2 3 4 5 6 7 8 9 10   next